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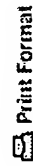
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2 **Hiding digital watermarks using multiresolution wavelet transform***Ming-Shing Hsieh; Din-Chang Tseng; Yong-Huai Huang;*

Industrial Electronics, IEEE Transactions on , Volume: 48 , Issue: 5 , Oct. 2001

Pages:875 - 882

[Abstract] [PDF Full-Text (184 KB)] IEEE JNL

3 **On random coding error exponents of watermarking systems***Merhav, N.;*

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4 **Protecting publicly-available images with an invisible image watermark**

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Image Processing, 1997. Proceedings., International Conference on , Volume: 1 , 26-29 Oct. 1997

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5 **A new video-object watermarking scheme robust to object manipulation**

Bas, P.; Macq, B.;

Image Processing, 2001. Proceedings. 2001 International Conference on , Volume: 3 , 7-10 Oct. 2001

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[Abstract] [[PDF Full-Text \(328 KB\)](#)] IEEE CNF

6 **Efficient decoding of watermarking schemes in the presence of false alarms**

Mansour, M.F.; Tewfik, A.H.;

Multimedia Signal Processing, 2001 IEEE Fourth Workshop on , 3-5 Oct. 2001

Pages:523 - 528

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7 **Image watermarking with zero-mean patches**

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Signals, Systems, and Computers, 1999. Conference Record of the Thirty-Third Asilomar Conference on , Volume: 2 , 24-27 Oct. 1999

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8 **Power constrained multiple signaling in digital image watermarking**

Huang, J.; Elmasry, G.F.; Shi, Y.Q.;

Multimedia Signal Processing, 1998 IEEE Second Workshop on , 7-9 Dec. 1998

Pages:388 - 393

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9 Secret and public key image watermarking schemes for image authentication and ownership verification

Ping Wah Wong; Memon, N.;
Image Processing, IEEE Transactions on , Volume: 10 , Issue: 10 , Oct. 2001
Pages:1593 - 1601

[Abstract] [PDF Full-Text (280 KB)] IEEE JNL

10 Digital audio watermarking in the cepstrum domain

Sang-Kwang Lee; Yo-Sung Ho;
Consumer Electronics, IEEE Transactions on , Volume: 46 , Issue: 3 , Aug. 2000
Pages:744 - 750

[Abstract] [PDF Full-Text (644 KB)] IEEE JNL

11 A watermarking sequence using parities of error control coding for image authentication and correction

Jaemin Lee; Chee Sun Won;
Consumer Electronics, IEEE Transactions on , Volume: 46 , Issue: 2 , May 2000
Pages:313 - 317

[Abstract] [PDF Full-Text (320 KB)] IEEE JNL

12 Multiresolution watermarking for images and video

Wenwu Zhu; Zixiang Xiong; Ya-Qin Zhang;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 9 , Issue: 4 , June 1999
Pages:545 - 550

[Abstract] [PDF Full-Text (564 KB)] IEEE JNL

13 Secure spread spectrum watermarking for multimedia

Cox, I.J.; Killian, J.; Leighton, F.T.; Shamoon, T.;
Image Processing, IEEE Transactions on , Volume: 6 , Issue: 12 , Dec. 1997
Pages:1673 - 1687

[Abstract] [PDF Full-Text (356 KB)] IEEE JNL

14 Method for combating random geometric attack on image watermarking

Agung, I.W.; Sweeney, P.;

Electronics Letters , Volume: 37 , Issue: 7 , 29 March 2001
Pages:420 - 421

[Abstract] [PDF Full-Text (224 KB)] IEE JNL

15 **Multiresolution video watermarking using perceptual models and scene segmentation**

Swanson, M.D.; Bin Zhu; Chau, B.; Tewfik, A.H.;
Image Processing, 1997. Proceedings., International Conference on , Volume:
2 , 26-29 Oct. 1997
Pages:558 - 561 vol.2

[Abstract] [PDF Full-Text (524 KB)] IEEE CNF

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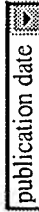


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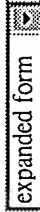
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101 Coding and Encryption: An image watermarking technique using pyramid transform

Qiang Cheng, Thomas S. Huang

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(1.90 MB)


Additional Information: full citation, abstract, references, citations, index terms

An image watermarking technique based on pyramid transforms is proposed. An arbitrary binary pattern is formed into an effective hypothesized pattern and transmitted as a watermark. Multiresolution pyramid transforms are applied to host images, whose characteristics are exploited to embed the watermark. The detector is designed to be effective to a wide range of original signal sources and noise sources. The scheme is designed to achieve efficient trade-offs between perceptual invisibility, robustness, and detection accuracy.

Keywords: pyramid transform, verification coding, watermarking

102 Session 3: discussion: Ontology in information security: a useful theoretical foundation and methodological tool

Victor Raskin, Christian F. Hempelmann, Katrina E. Triezenberg, Sergei Nirenburg

September 2001 **Proceedings of the 2001 workshop on New security paradigms**Full text available:  pdf(507.99 KB)


Additional Information: full citation, abstract, references, index terms

The paper introduces and advocates an ontological semantic approach to information security. Both the approach and its resources, the ontology and lexicons, are borrowed from the field of natural language processing and adjusted to the needs of the new domain. The approach pursues the ultimate dual goals of inclusion of natural language data sources as an integral part of the overall data sources in information security applications, and formal specification of the information security community ...

Keywords: documentation, human factors, languages, security, standardization, theory

103 Session 4: innovative solutions: A trusted process to digitally sign a document

Boris Balacheff, Liqun Chen, David Plaquin, Graeme Proudler


September 2001 **Proceedings of the 2001 workshop on New security paradigms**Full text available:  [pdf\(709.00 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a method of increasing the trust in open computing platforms, such that a person can have confidence in producing a digital signature using open platforms. The process of using a digital signature to sign a digital document is well understood. Most descriptions assume the correctness of the process of signing a document within a computing platform. In an increasing connected world, this assumption is no longer true when open computing platforms are used. This paper proposes t ...

Keywords: TCPA, authenticated image, digital signatures, smart card, trusted display

104 Computing curricula 2001September 2001 **Journal on Educational Resources in Computing (JERIC)**Full text available:  [pdf\(613.63 KB\)](#)  [html](#)
(2.78 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**105** Consistent mesh parameterizations


Emil Praun, Wim Sweldens, Peter Schröder

August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**Full text available:  [pdf\(2.97 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A basic element of Digital Geometry Processing algorithms is the establishment of a smooth parameterization for a given model. In this paper we propose an algorithm which establishes parameterizations for a set of models. The parameterizations are called consistent because they share the same base domain and respect features. They give immediate correspondences between models and allow remeshes with the same connectivity. Such remeshes form the basis for a large class of algorithms, including ...


106 Columns: Risks to the public in computers and related systems

Peter G. Neumann

July 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 4Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#)**107** Watermarking graph partitioning solutions

Greg Wolfe, Jennifer L. Wong, Miodrag Potkonjak

June 2001 **Proceedings of the 38th conference on Design automation**

Full text available:  pdf(86.26 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Trends in the semiconductor industry towards extensive design and code reuse motivate a need for adequate Intellectual Property Protection (IPP) schemes. We offer a new general IPP scheme called constraint-based watermarking and analyze it in the context of the graph partitioning problem. Graph partitioning is a critical optimization problem that has many applications, particularly in the semiconductor design process. Our IPP technique for graph partitioning watermark ...

108 Watermarking of SAT using combinatorial isolation lemmas

Rupak Majumdar, Jennifer L. Wong

June 2001 **Proceedings of the 38th conference on Design automation**

Full text available:  pdf(92.06 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Watermarking of hardware and software designs is an effective mechanism for intellectual property protection (IPP). Two important criteria for watermarking schemes are credibility and fairness. In this paper, we present the unique solution-based watermarking technique which provides, in a sense, the ultimate answer to both credibility and fairness requirements. Leveraging on a combinatorial theorem of Valiant and Vazirani, we demonstrate how ultimate credibility and complete fairness can a ...

109 Publicly detectable techniques for the protection virtual components

Gang Qu

June 2001 **Proceedings of the 38th conference on Design automation**

Full text available:  pdf(131.89 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Highlighted with the newly released intellectual property (IP) protection white paper by VSI Alliance, the protection of virtual components (VCs) has received a large amount of attention recently. Digital signature is one of the most promising solutions among the known protection mechanisms. However, the trade-off between hard-to-attack and easy-to-detect and the lack of efficient detection schemes are the major obstacles for digital signatures to thrive. In this paper, we propose a new wat ...

110 PREFER: a system for the efficient execution of multi-parametric ranked queries

Vagelis Hristidis, Nick Koudas, Yannis Papakonstantinou

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available:  pdf(348.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Users often need to optimize the selection of objects by appropriately weighting the importance of multiple object attributes. Such optimization problems appear often in operations' research and applied mathematics as well as everyday life; e.g., a buyer may select a home as a weighted function of a number of attributes like its distance from office, its price, its area, etc.

We capture such queries in our definition of preference queries that use a weight function over a relation's a ...

111 [I/O reference behavior of production database workloads and the TPC benchmarks—an analysis at the logical level](#)

Windor W. Hsu, Alan Jay Smith, Honesty C. Young

March 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1

Full text available: [PDF \(5.42 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amounts of data. The key to achieving good I/O performance is to thoroughly understand its characteristics. In this article we present a comprehensive analysis of the logical I/O reference behavior of the peak production database workloads from ten of the world's largest corporations ...

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

112 [A framework to support teaching in distributed systems](#)

C. Burger, K. Rothmel

March 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [PDF \(407.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer networks and distribute systems are characterized by highly dynamic, concurrent, and complex processes. Thus, training in this area requires great effort from both teachers and learners. Teachers are dissatisfied with available methods for presentation, explanation, and exercises, and they are looking for better methods to support learners. We have developed and architecture called Highly interactive simulation of algorithms and Protocols (HiSAP), consisting of a framework ...

Keywords: interactive learning, tool kit

113 [Natural language processing for information assurance and security: an overview and implementations](#)

Mikhail J. Atallah, Craig J. McDonough, Victor Raskin, Sergei Nirenburg

February 2001 **Proceedings of the 2000 workshop on New security paradigms**

Full text available: [PDF \(1.29 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

114 [A new paradigm hidden in steganography](#)

Ira S. Moskowitz, Garth E. Longdon, LiWu Chang

February 2001 **Proceedings of the 2000 workshop on New security paradigms**

Full text available: [PDF \(1.05 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: information hiding, steganography

115 [On providing support for protocol adaptation in mobile wireless networks](#)

Pradeep Sudame, B. R. Badrinath

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Full text available: [\[PDF\] \(146.48 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: adaptivity, mobility, protocols, wireless networks

116 [Cumulating and sharing end users knowledge to improve video indexing in a video digital library](#)

Marc Nanard, Jocelyne Nanard

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: [\[PDF\] \(250.01 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we focus on a user driven approach to improve video indexing. It consists in cumulating the large amount of small, individual efforts done by the users who access information, and to provide a community management mechanism to let users share the elicited knowledge. This technique is currently being developed in the "OPALES" environment and tuned up at the "Institut National de l'Audiovisuel & dquo;(INA), a National Video Library in Paris, to increase the v ...

Keywords: knowledge sharing, private workspaces, users communities, video annotation, video indexing

117 [Effective access to large audiovisual assets based on user preferences](#)

S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available: [\[PDF\] \(1.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

Keywords: multimedia databases, query expansion, text-based search, user profiling, web access

118 [Multimedia content protection by cryptography and watermarking in tamper-resistant hardware](#)

Feng Bao

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available:  pdf(386.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


With the rapid growth of broadband network, distribution of multimedia via Internet is a must way to go. Content protection has become one of the most significant and challenging problems of this field. In this paper, we propose a general scheme that combines public key cryptography and watermarking technology together, to achieve wonderful content protection. The scheme is reliable, flexible and efficient.

Keywords: multimedia content protection, public key cryptography, tamper-resistant hardware, watermarking technology

119 [Audio watermarking for monitoring and copy protection](#)

Jaap Haitsma, Michiel van der Veen, Ton Kalker, Fons Bruekers

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available:  pdf(313.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Based on existing technology used in image and video watermarking, we have developed a robust audio watermarking technique. The embedding algorithm operates in frequency domain, where the magnitudes of the Fourier coefficients are slightly modified. In the temporal domain, an additional scale parameter and gain function are necessary to refine the watermark and achieve perceptual transparency. Watermark detection relies on the Symmetrical Phase Only Matched Filtering (SPOMF) cross-correlation ...

Keywords: audio, broadcast monitoring, copy protection, watermark detection, watermark embedding

120 [Secure data hiding in wavelet compressed fingerprint images](#)

Nalini K. Ratha, Jonathan H. Connell, Ruud M. Bolle

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available:  pdf(688.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the rapid growth of the Internet, electronic commerce revenue now amounts to several billion US dollars. To avoid fraud and misuse, buyers and sellers desire more secure methods of authentication than today's userid and password combinations. Automated biometrics technology in general, and fingerprints in particular, provide an accurate and reliable authentication method. However, fingerprint-based authentication requires accessing fingerprint images scanned remotely at the user's workst ...

Keywords: WSQ compression, authentication, biometrics, data hiding, fingerprints, watermarking

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